Approved For Release 2003/08/05 : CIA-RDP78B05171A000800030010-8

MPIC/TSG/PPS-063-70 6 August 1970

MEMORANDUM FOR: Chief, Technical Services Group, NPIC

SUBJECT : Projects & Programs Staff Monthly Report - July 1970

A. During July, the Projects & Programs Staff conducted staff functions for TSG (including, (1) administrative, (2) daily representations to the Production Management Board, (3) working level liaison contact with PPBS on budget matters, and (4) with PSG on production matters) and also carried out the following additional actions.

- 1. A PPS member, acting as Permanent Secretary, scheduled, arranged, guided, and recorded the proceedings of two TSG Career Board meetings (6 and 27 July).
- 2. A PPS member represented the Group at a Center-wide Training Selection Panel on 15 July.
- 3. A PPS member provided the background data and prepared the brief expressing TSG's position regarding the Center's Production Management Board.
- 4. Extensive preparation efforts by the whole Staff have been directed to compiling the final manuscript that will become the 1970 edition of the NPIC Equipment Summary.
- 5. As Group Budget coordinators PPS members have made continual adjustments to the FY-71 Operating Budget throughout the month. Participation in the PPBS Budget review and subsequent presentation to the Executive Director was part of this effort.
- 6. This Staff has been assigned as Group Coordinator for the Imagery Analysis Training Manual proposed by the Office of Training.
- 7. Coordinated and scheduled six (6) more Group orientation briefings for PSG/AID and new IEG employees.

DECLASS REVIEW by NIMA/DOD

SECRET

OROUP 1
Excluded from automatic
downgrading and
declassification

Approved For Release 2003/05/05 : CIA-RDP78B05171A000800030010-8

SUBJECT: Projects & Programs Staff Monthly Report - July 1970

- B. During August the following significant actions are anticipated.
- 1. Complete the schedule of AID tours, and arrange additional TEG tours.
- 2. Complete the Equipment Summary manuscript and prepare for printing.
- 3. Complete the compilation of data to be used in the Imagery Analysis Training Manual.
 - 4. Prepare the agenda for August.
- 5. Finalize the FY-71 budget and refine the FY-72 Office Estimates.
- 6. Coordinate TSG participation in modification program in preparation for activation of 1540 light tables.
- 7. Prepare and provide in-depth information relative to KH-9 preparedness.
- 8. Coordinate final preparation of a schedule for the three-month TSG Orientation of

Acting Chief, Projects & Programs Staff, TSG, NPIC

Distribution:

25X1

Original - Addressee

- 2 MPIC/TSG/PPS
- 1 NPIC/TSG/APSD
- 1 MPIC/TSG/ESD
- 1 NPIC/TEG/RED

- 2 -

SECRET

25X1

25×1

2	5	X	

25X1

25X1

Approved For Release 2003/08/05 : CIA-RDP78B05171A000800030010-8

,	ATTACHMENT to: 6 August 1970	25X1
MEMORAND	UM FOR: Chief, Projects & Programs Staff, TSG/NPIC	
SUBJECT:	APSD Activity Report for July 1970	
		~.
l. occurred	The following items of significant interest in the APSD during July 1970:	
•	A. Administrative	
	(1) Certificates of membership to the	
•	(1) Certificates of membership to the NPIC Century Club were conferred upon	
ē	1	25X1
	These were presented by	25X1
	DDCI, on 7 July 1970.	20/(1
	(2)	25X1
	were recipients of cash awards	20/(1
	and certificates of appreciation for sug- gestions they had made which resulted in	•
	significant savings to the Community.	
,	(3) This month began	25X1
	a one-year TDY assignment at the Air War	23/(1
	College, Maxwell AFB, Montgomery, Ala.	
	(4) Chief, Section II	
	of IEB transferred to IEG on 20 July. has been designated as	
	Acting Chief, Section II and	25X1
	Acting Chief, Section I.	
	(5)	25X1
	attended the color course at Renssaeler Poly- technical Institute in Troy, New York the week	
	of 6 July.	

CROUP 1 Excluded from automatic duwngrading and declassification

25X1

document was sent to PHD.

Micro-d traces of SA-5 boosters

were made in support of AB/PHD/IEG for their detailed analysis on that missile. The traces

and photomicrographs from ON were given to on 29 June 70.

2 <mark>5X1</mark>		N.
	Approved For Release 2003/08/05 : CIA-RDP78R05171A000800030010-8	:
	ATTACHMENT to:	25X1
	SUBJECT: APSD Activity Report for July 1970	
,		
25X1	(d) Four micro-d traces and four isodensitraces were made of 35mm reproductions from Four Soviet ships were traced in an attempt to derive their compartmentation and Traces were sent to NRTS via	25×1
25X1	DIAXX-4 with a memo description of the procedures (techniques) utilized.	
	C. Collection System Support and Aids	
	(1) The final draft of the manual was completed and submitted to RED/RSB for review.	25X1
	(2) Several raster scan traces have been made of selected imagery for RED. This data is to be processed at Patrick AFB in their image enhancement programs to determine the effectiveness and how applicable their DIM system is with this type of imagery. Additional traces are to be made in the following months in support of this project. Digitized raster µD traces are also	
25X1	being made of selected subjects to be sent to for DIM processing. This support is being provided to RED.	
	(3) Film statistics data was summarized for the full fiscal year and a comparison by mission and footages has been compared against the FY 69 inputs. These were provided the Deputy Director, NPIC and the Management Staff of PPBS. The information was also prepared in	
25X1	briefing board-format and presented by at the Director's staff briefing on 25 July.	

	A	pproved For Release 2003/08/05 : CIA-RDP78895171A000800030010-8		
		ATTACHMENT to:		
				25X ²
	SUBJECT:	APSD Activity Report for July 1970		
	•			
	•	(4) In preparation for the expected operational employment in early July of a new photo collection system, launch plans were monitored on a daily basis until a decision to		
	÷	stand-down the operation was announced on 10 July.		
25X1		assisted the NRO in publication of their annual PFAIB report. Support included graphics, photography, and		
		publication which was provided by the various PSG components of NPIC. was personally involved in selection of much of the material included in the report.		25X ²
•	•	ranga da kanana da k		
25X1	•	(6) An evaluation was conducted for in regard to the compatibility of SO-349 in the IRIS camera system. The results are contained in cable OUT 70145.		w.
		(7) In support of a geology study being	·	
25X1		conducted by a number of DISIC frames which cover the same geographic area as the		
	• •	color material from were selected. This material was shipped to via DDS&T/OSP on 13 July 1970.		25X 25X
	.	(8) The Edge Trace Target Catalogue periodic updating was accomplished during the month.		
25X1		The exact changes are contained in memorandum, dated 20 July 1970.		
	; ·	(9) Detailed analysis of the "Operational Handbook for Evaluation of Original Negative" continues in the division. Minor gaps and errors in documentation are being encountered but are	·	
25X1		being resolved through analysis and direct contact with i.e., meeting of 21 July. Emphasis is being placed on the "Data Collection and Generation of Target Data and Mission Summary Files." The calculation of acutance and subsequent		
	•	statistical analysis has been programmed by the APSD/IEB. Programming of the tonal evaluation has begun.		25X

2 <u>5</u> V1		
∠ 3∧		

a الإسلامية عارضة عالية المسلمة على ال		
Approved For Release 2003/08/05 : CIA-RDP78B05171A000800030010-8		
ATTACHMENT to:		25X1
SUBJECT: APSD Activity Report for July 1970		
2. The following significant items are anticipated for the month of August:		
A. The camera contractor suggested to the OSA that flight tests be conducted to determine the potential of SO-242 color film in the IRIS camera. OSA concurred and established the procedures in cable IN 55147. The flights (2) are tentatively scheduled for the first week of August.		
B. Six men are scheduled to provide initial phase handling support at In addition, two photointerpreters will accompany the team to provide a quick readout of the coverage of the SS-9, SS-11 and SS-13 missile sites. Recoveries are scheduled for 29 July and 8 August 1970.		25X1
C. The PET meeting for will probably be held at NPIC the last week of August or the first week of September.	•	25X1
D. Five men are tentatively scheduled to provide initial phase handling support at Recovery dates are approximately 20 and 28 August.		25X1
E. APSD is working on a special study called Technical Night Film Evaluation, The product of this evaluation will be a hard copy report. The analysis will consist of the types and brightness of the recorded "light" images, a density analysis and a resolution comparison of the 3401 emulsion vs. the SO-380. The evaluation is well underway and should be completed about the middle of August.		25X1
F. The APSD plans to complete informative papers about:		
(1) Error propagation		
(2) Relative orientation		
(3) Space resection		OEV4
	• •	25X1

-5-

·			$_{ m TTA}$	ACHMENT to	o :	
			,			
SUBJECT: AP	SD Activity	Report fo	r July 19	70		
		₽ [*]				
G. Preproce	The divisi	on should entation f	complete or ACIC.	the AP-3		
H. approxin	High contr nately 140	COMIREX ta	will be rgets in	made of Egypt if		·
they are	covered of	n				•

Chief, Applied Photo Science Division, TSG/NPIC

Approved For Release 2003/08/05 : CIA-RDP78B05171A000800030010-8

NPIC/TSG/ESD-45-70 7 August 1970

MEMORANDUM FOR: Chief, Projects & Programs Staff, TSG, NPIC SUBJECT: ESD Monthly Report for July 1970

Noteworthy Events 25X1 1540 Light Table - A test program for the Mod II prototype was accomplished during the period 12 March through 30 April. The T&E report on that program was distributed during July. The unit has now been modified by the Mfg. to correct certain deficiencies and was re-tested by IEB during this reporting period. A supplementary report on this re-testing is being prepared and will be distributed to all recipients of the basic T&E report. 15/40 Light Table - This table was tested concurrently 2. table in item 1 above. The T&E report will be distributed very shortly. This table was also returned to the Mfg. for correction of deficiencies. The TEB engineer, operating division representatives and RED project officer all visited on 8-9 June to inspect the modifications which had been accomplished. A trip report (TSG/ESD/TEB-16-70) was distributed stating that all discrepancies had not been corrected at that time. However, major ones, involving the microstereoscope carriage, had been satisfactorily re-designed. TEB has been informed that this prototype will not be shipped to NPIC at this time for re-testing. Advanced Stereo Rhomboid - The T&E report has been 25X1

completed and is being reproduced at this time.

4. Wide Field Filar Eyepiece - The prototype has completed its planned schedule of testing. However, as a result of evaluation by the operating divisions it has been determined that an additional test, to evaluate its measuring usefulness in stereo as well as in mono, is in order. In view of the strong interest in this item by IEG, TAS and DIA we are investigating means for performing this additional test.

Advanced 918 Light Table - The T&E report on this item was distributed in March. Since then the unit has been modified by the Mfg. for correction of deficiencies and re-tested. A supplementary test report was prepared during July and will be distributed shortly.

GROUP 1 xcluded from automatic downgrading and isclassification

25X1

25X1

Approved For Release 2003/08/05 : CIA-RDP78B05171A000800030010-8 SCUKE

SECRET Approved For Release 2003/08/05 : CIA-RDP78B05171A000800030010-8

SUBJECT: ESD Monthly Report for July 1970

25X1

25X1

- 6. Intergraphics Retrofit Film Drive Kit TEB conducted its engineering test on this item during the period 8-24 July. It is now proceeding through all four operating divisions for operational evaluation. This phase is scheduled for completion on 28 August.
- 7. "Green Grid" Light Table Test The light sources of a MIM-47B table were left on continuously in TEB from 31 March to 24 July. It was turned off after 2742 hours. The liquid coolant did not visibly turn green on this particular table. The maximum light output decreased from 2800 fL to 1500 fL during this period. ESD has replaced the lamps with new ones, producing 3000 fL, and returned the table to DIAAP-9. A memorandum report on this is being prepared.
- 8. Light Table Brightness Survey This project was mentioned briefly in last month's report. A T&E report on it was distributed during July. This survey, involving 50 light tables in operational use, was designed to obtain data on light table brightness levels being utilized. Much significant data was obtained on both light table performance limitations as well as on the way they are being used. The results include information such as this: 56% of the tables are in use at any one time; 27% of these are being used in stereo; both formats are used only 21% of total operating time; and 40% of each MIM-4 format is not being used leading to the conclusion that uniform illumination is not needed over the entire format. A high uniform brightness level over a small well defined area of each format would be adequate.
- 9. 2X Objective Lens for Zoom 240 This item may be useful for utilization with the new Zoom 240R/Mod. 28 rhomboid system. It will provide additional magnification for the binocular monoscopic viewing mode. The lens has been loaned to the Center by the Mfg. for evaluation. TEB received it the last of July and is preparing a test program.
- July to Briefing's Presented On 2 July to the new Co-ops; on 8 July to on 7, 14, 21 and 28 July to AID employees.
- 11. Equipment Summary Annex A T&E annex was prepared for inclusion in the NPIC Interim Equipment Summary.
- 12. Emergency Service The Equipment Performance Branch received 64 requests for miscellaneous emergency service during July. Approximately

CEODET

Approved For Release 2003/08/05 : CIA-RDP78B05171A000800030010-8

SUBJECT:	ESD Mo	onthly Re	port for	July 197	O .		
56% were requests	electro	nic type ational	, 34% mec component	hanical s are:	and 10%	optical.	These
	PSG TSG IEG	32 16 7			DIA Army IAS	6 2 1	
cleaning,	repair r malfu	ing, lubr	istruments ication,	s were se alignmen	erviced.	replacemen	cluded
	IEG DIA PSG	145 125 18			Army TSG IAS	11 2 .1	
Center con	mponents Accepte	• nce Insp	ection -	ects wer	e comple	Fourteen eted in su ew equipme	
[16.	On 13 J 3SEE fro mechani	Aruly	state Un	E.O.	.D. with	ossesses	an associate the Air
17. [Rensselaer 13 through	on 6-10 28 July	July.	attended He was or	l a semin n annual	ıar on C leave d	olor Tech uring the	nology at period
18. [through 20	ontà.		has retur	ned afte	r annua	l leave fr	om 22 June
19. [on Honeywe	ll DDP-5	16 Compu	is attend ters in F	ing a fi ramingha	ve week m, Mass.	maintenar	ce course
20. [on board as	a summ	er inter]a Unive	rsity of	Marylar	nd student	, came

25X1

25X1

25X1

25X1

25X1

25X1

Approved For Release 2003/08/05 : CIA-RDP78B05171A000800030010-8

25X1

21 members receivi	received hip certificates in the Century Club, honorary for suggestors ng \$100.00 or more. The awards were presented by Mr. Lundahl.	
	icipated Events for August 1970	
1.	Distribution of a T&E Report on the 1540 Light Table.	
2. Light I	Distribution of a Supplementary Report on the 1540 able.	
3.	Distribution of a T&E Report on the ASR.	
4. Light T		
5. test.	Distribution of a Memorandum Test Report on the "Green Grid"	
6, and a l	Arrival at NPIC for T&E of a 40" Dry Silver Paper Processor O" Dry Silver Film Processor from	
	SIGNED	
	Deputy Chief	

4

		Approved For Release 2003/08/95 GIA-RDP78B05171A000800030010-8	
		7 August 1970	25X1
		Copy	-
		MEMORANDUM FOR: Chief, Technical Services Group, NPIC	
		ATTENTION : Chief, PPS/TSG	
		SUBJECT: RED Monthly Report on Significant Events (July 1970)	
,	Α.	Significant Items of Interest for July 1970:	25X1
		1. Automatic Stereo Scanner . has completed	25X1
		an inventory of all items associated with the Scanner and has pre- pared the instrument for shipment to This shipment should occur	25X1
25X1		during the first part of August. Upon receipt, will begin its reassembly with assistance. The concurrent contract, "Utility of Stereo Scanning," was initiated during July.	25X1 25X1
		2. Automatic Target Indexing Device - The system is in the final assembly stage and the project is on schedule. The planned shipment date of 11 September is still valid. The device will be assigned to PSG/R&RD for operational evaluation of automatic cloud indexing. It will be placed in Room 2N617 for both T&E and for the operational evaluation. All the necessary preparation for the device's installation in NPIC are currently underway.	25X1
		3. Radar Parameters Study - This study, being	25X1
25X1		performed for by a joint effort of NPIC/IEG and has been initiated. Test materials and procedures are now being formulated, and actual PI testing should begin in August. This is a four-month project and it is on schedule.	25X1
		4. Improved Rear Projection Screens - The final report has been received along with small samples of lenticular screens which demonstrate increased performance over conventional screens. A proposal has also been received for a follow-on effort to eliminate undesirable color and to fabricate large (30" x 30") screens which would be com-	25X1
		patible with the Scan & Search PI Station (now being designed by This proposal is under evaluation.	25X1

GROUP 1
Excluded from automatic downgrading and declassification

TOP SECRET

Approved For Release 2003/08/05 : CIA-RDP78B05171A000800030010-8

25 X 1	100 SECTION Approved Release 2003/08/05 : CIA-RDP78B05171A000800030010-8	
		25X′
	SUBJECT: RED Monthly Report on Significant Events (July 1970)	
	5. Wide-Field High Power Anamorphic Stereoviewer - After a long period of "stop work" on this project (due to lengthy contractual negotiations), work has started on the fabrication phase. This phase has been subdivided into three measurable milestones-each of which will be reviewed and evaluated before proceeding to the subsequent milestone. The project is on schedule.	25X ⁻
	6. Automatic Stereogram Feasibility Study - The final report on the feasibility of the optics has been received and is being evaluated. The advisability of continuing this project will be determined in the near future.	25X ²
25X1 25X1 25X1	7. Color Analyzer. ATB/RED, conferred with both and PSG/PD to finalize requirements for a color analyzer. A proposal is expected from shortly.	
	8. Proposals Received.	
	a. A draft proposal has been received from for the FY-71 Color Technology Implementation Program. This is being evaluated.	25X
	b. The proposal for FY-71 continuation of the Grant in Photoscience was received, evaluated, and judged acceptable.	25X ²
	9. Reports Received.	
25X1	a. Final reports covering the Color Gamut for SO-242 and the Analytical Density Matrix for SO-360 were received from under the T&M contract, and they are currently being reviewed.	25X ⁻
25X1	b. reported results of a broad-brush analysis of the oil that turned green in light tables. The contamination was attributed to copper and nickel.	
25X1	10. Chemical Image Manipulation. Halos were first obtained with operational imagery using processing on 2430 film. This achievement remains to be refined and evaluated as a useful technique for chemically manipulating images.	

25 X 1	IUP, Stritt	
1	Approved For Release 2003/08/05 : CIA-RDP78R05171A000800030010-8	
•	•	25X1
	SUBJECT: RED Monthly Report on Significant Events (July 1970)	
25X1	111540 Split-Format Light Table. The1540 split-format light table prototype was received. TEB/ESD has evaluated the corrections made on the instrument and will produce an addendum report on the results of their evaluation.	25 X1
25X1	12. Chip Implementation Study. A final technical report covering Phase I of the Chip Implementation Study Program was submitted to RED This report has been disseminated throughout the Center for information and evaluation.	
	13. IEG Training Package. The developed a training package on SA-3 site recognition pilottested in IEG; other packages on naval and electronics targets also given preliminary evaluation.	25X1
	14. Contracts Signed.	
25X1	a. Contract with Information Systems for a Step & Repeat Contact Printer Design Study on 26 June 1970; and	
25X1	b. Contract for fabrication of the prototype Scan & Search PI Station with on 30 June 1970.	
	15. Training.	
25X1	a. attended the course entitled Principles of Color Technology given at Rensselear Polytechnic Institute. Information obtained from this course will result in improvements in our capability for measuring and specifying and establishing tolerances for color processes.	
25X1	attended the R&D Management Course given in New York by American Management Association.	
25X1	cattended a demonstration of tape transport systems and on-line printers put on by on 29 July 1970.	25X1
	16. Briefings.	-
25X1	a. RSB/RED, with the assistance of APSD, provided NPIC with briefings on the system. A total of 15 briefings over a three-day period were given. Private briefings were conducted on this system during the reporting period to requesting personnel.	25V4
		25X 1
	Approved For Release 2003;08/05 : CIA-RDP78B05171A000800030010-8	

25X1
25X1 25X1
25X1 25X1
25X1

Distribution:
Orig. & 5 - TSG
2 - TSG/RED